

# Patterns of Physical Geography

## Unit ATLAS

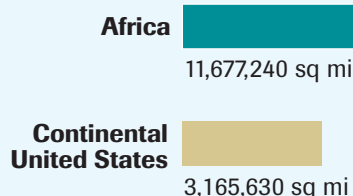
Use the Unit Atlas to add to your knowledge of Africa. As you look at the maps and charts, notice geographic patterns and specific details about the region. After studying the graphs and physical map on these two pages, jot down in your notebook the answers to the questions below.

### Making Comparisons

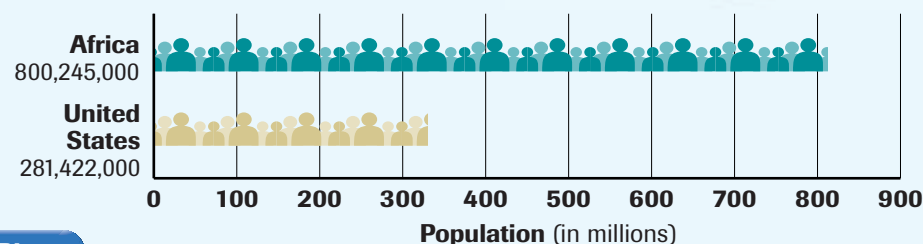
1. Compare Africa's size and population to that of the United States. How much larger in terms of population and size is Africa compared to the United States?
2. Compare Africa's longest river, the Nile, to the Mississippi. How much difference is there in the lengths?
3. How much bigger is the Sahara than the largest desert in the United States? What is the difference in size between the Sahara and the continental United States?

### Comparing Data

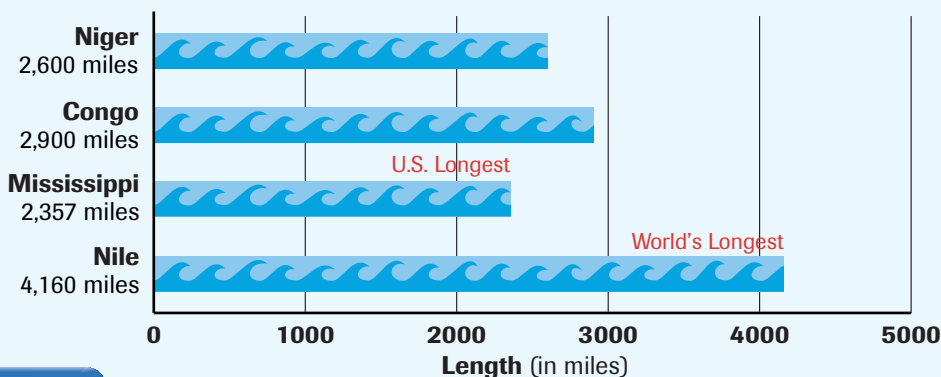
#### Landmass



#### Population



#### Rivers



#### Deserts

**World's Largest Sahara**  
Africa  
3,500,000 sq. miles

**U.S. Largest Mojave**  
United States  
25,000 square miles

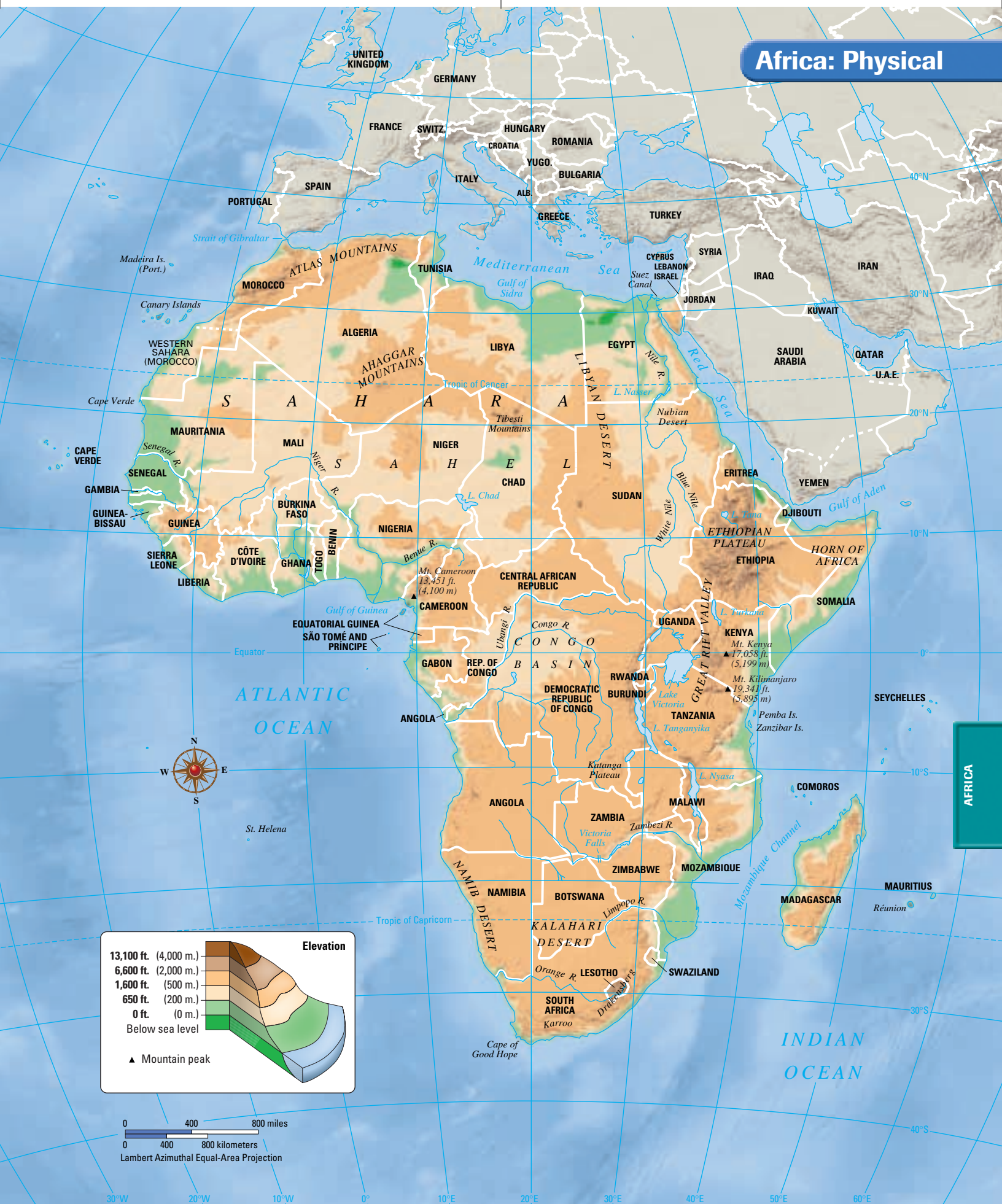
**Namib**  
Africa  
102,248 square miles

**Kalahari**  
Africa  
about 100,000 square miles

For updated statistics on Africa . . .



# Africa: Physical





# Patterns of Human Geography

## Unit ATLAS

In the years preceding World War I (1914–1918), the political map of Africa changed dramatically. European colonial powers had replaced traditional African states and empires. Study the political maps of Africa in 1913 and Africa today to see how the continent changed by the end of the 20th century. Then answer these questions in your notebook.

### Making Comparisons

1. What independent nations appear on the map of Africa in 1913 and also appear on the map of Africa today?
2. Which two European powers controlled the most land in Africa in 1913? Which country controlled the least amount?
3. Which countries in Africa today formed French West Africa in 1913?
4. Which three African countries emerged from colonialism with the most territory?

### Colonialism in Africa, 1913



# Africa: Political





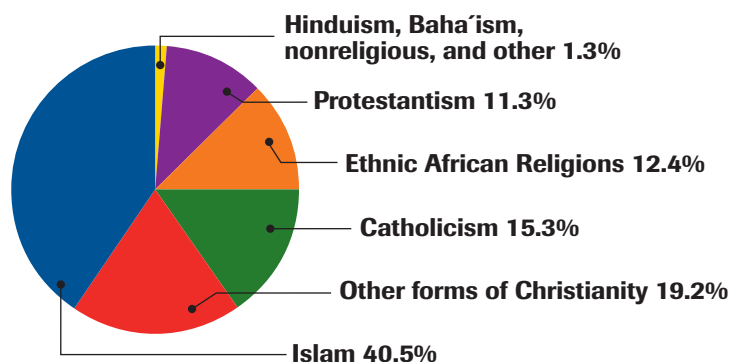
# Unit ATLAS



## Regional Patterns

These two pages contain a graph and two thematic maps. The graph shows the religions of Africa. The maps show other important features of Africa: its diversity of languages and its population distribution. After studying these two pages, jot down in your notebook the answers to the questions below.

### Religions of Africa



SOURCE: Britannica Book of the Year 2000

### Making Comparisons

1. Where are most of the people in Africa living? In what areas of Africa are the fewest people living?
2. What geographic factors may account for these population patterns?
3. What do you notice about the number of languages in Africa? Do they belong to one language group or several?

### Population Distribution of Africa



## Languages of Africa



0 400 800 miles  
0 400 800 kilometers  
Lambert Azimuthal Equal-Area Projection



# Regional Data File

Study the charts on the countries of Africa. In your notebook, answer these questions.

## Making Comparisons

- Which three African countries have the most people? Locate them on the map. Are they also the largest countries in terms of total area?
- Which three African countries have the fewest people? Locate them on the map. Are they the smallest countries in terms of total area?
- Look at Angola's life expectancy, infant mortality, and number of doctors. Judging from these statistics, does Angola have good health care?

(continued on page 410)

### Notes:

<sup>a</sup> Life expectancy figures for many African countries are declining significantly, mainly due to poverty, politics, and the spread of AIDS.

<sup>b</sup> Doctors are defined as graduates of a school of medicine in any medical field.

<sup>c</sup> A comparison of the prices of the same items in different countries is used to figure these data.



















<sup>d</sup> Includes land and water, when figures are available.

For updated statistics on Africa . . .



| Country Flag | Country/<br>Capital                             | Population<br>(2000) | Life Expectancy <sup>a</sup><br>(years)<br>(2000) | Birthrate<br>(per 1,000 pop.)<br>(2000) | Infant Mortality<br>(per 1,000 live births)<br>(2000) |
|--------------|---|----------------------|---|---|---|
|              | <b>Algeria</b><br>Algiers                       | 31,471,000           | 69  | 29                                      | 44.0  |
|              | <b>Angola</b><br>Luanda                         | 12,878,000           | 47  | 48                                      | 125.0   |
|              | <b>Benin</b><br>Porto-Novo                      | 6,396,000            | 50  | 45                                      | 93.9  |
|              | <b>Botswana</b><br>Gaborone                     | 1,576,000            | 44  | 32                                      | 57.2  |
|              | <b>Burkina Faso</b><br>Ouagadougou              | 11,946,000           | 47  | 47                                      | 105.3   |
|              | <b>Burundi</b><br>Bujumbura                     | 6,054,000            | 47  | 42                                      | 74.8  |
|              | <b>Cameroon</b><br>Yaoundé                      | 15,422,000           | 55  | 37                                      | 77.0  |
|              | <b>Cape Verde</b><br>Praia                      | 401,000              | 68  | 37                                      | 76.9  |
|              | <b>Central African Republic</b> , Bangui        | 3,513,000            | 45  | 38                                      | 96.7  |
|              | <b>Chad</b><br>N'Djamena                        | 7,977,000            | 48  | 50                                      | 109.8   |
|              | <b>Comoros</b><br>Moroni                        | 578,000              | 59  | 38                                      | 77.3  |
|              | <b>Congo, Democratic Republic of</b> , Kinshasa | 51,965,000           | 49  | 48                                      | 108.6   |
|              | <b>Congo, Republic of</b> , Brazzaville         | 2,831,000            | 48  | 40                                      | 108.6   |
|              | <b>Côte d'Ivoire</b><br>Yamoussoukro            | 15,980,000           | 47  | 38                                      | 112.2   |
|              | <b>Djibouti</b><br>Djibouti                     | 638,000              | 48  | 39                                      | 115.0   |
|              | <b>Egypt</b><br>Cairo                           | 68,344,000           | 65  | 26                                      | 52.3  |
|              | <b>Equatorial Guinea</b><br>Malabo              | 453,000              | 50  | 41                                      | 108.0   |
|              | <b>Eritrea</b><br>Asmara                        | 4,142,000            | 55  | 43                                      | 81.8  |



| <b>Doctors<sup>b</sup></b><br>(per 100,000 pop.)<br>(1992–1998) | <b>GDP<sup>c</sup></b><br>(billions \$US)<br>(1999) | <b>Import/Export<sup>c</sup></b><br>(billions \$US)<br>(1997–1999) | <b>Literacy Rate</b><br>(percentage)<br>(1998–1999) | <b>Televisions</b><br>(per 1,000 pop.)<br>(1996–1998) | <b>Passenger Cars</b><br>(per 1,000 pop.)<br>(1996–1997) | <b>Total Area<sup>d</sup></b><br>(square miles) |   |
|---|---|--|---|---|--|---|---|
| 85  | 147.6   | 9.3 / 13.7   | 66  | 68  | 17   | 919,590   |    |
| 8   | 11.6  | 3.0 / 5.0  | 42  | 124   | 21   | 481,351   |    |
| 6   | 8.1   | 0.566 / 0.396  | 38  | 91  | 6  | 43,483  |    |
| 24  | 5.7   | 2.05 / 2.36  | 76  | 27  | 53   | 231,804   |    |
| 3   | 12.4  | 0.572 / 0.311  | 22  | 6   | 3  | 105,869   |    |
| 6   | 4.2   | 0.108 / 0.056  | 46  | 10  | 2  | 10,759  |   |
| 7   | 31.5  | 1.5 / 2.0  | 74  | 81  | 7  | 183,591   |  |
| 17  | 0.618   | 0.225 / 0.038  | 73  | 45  | 29   | 1,557   |  |
| 4   | 5.8   | 0.17 / 0.195   | 44  | 5   | 3  | 240,534   |  |
| 3   | 7.6   | 0.359 / 0.288  | 39  | 2   | 1  | 495,752   |  |
| 7   | 0.41<br>(1998)                                      | 0.05 / 0.009   | 59  | 4   | 18   | 719   |  |
| 7   | 35.7  | 0.46 / 0.53  | 59  | 43  | 7  | 905,365   |  |
| 25  | 4.15  | 0.77 / 1.7   | 78  | 8   | 10   | 132, 047  |  |
| 9   | 25.7  | 2.6 / 3.9  | 45  | 70  | 11   | 124,503   |  |
| 14  | 0.55  | 0.44 / 0.26  | 62  | 73  | 31   | 8,958   |  |
| 202   | 200.0   | 15.8 / 4.6   | 54  | 127   | 20   | 386,900   |  |
| 25  | 0.96  | 0.3 / 0.555  | 81  | 162   | 9  | 10,830  |  |
| 3   | 2.9   | 0.44 / 0.053   | 52  | 14  | 2  | 47,320  |  |





# Regional Data File

## Making Comparisons (continued)

4. Use the map on page 405 to choose a country in East Africa. How many televisions and cars does it have per 1,000 people? How does that compare to the United States?
5. Make a list of the top three African countries in GDP. Where are these countries located? Do you notice any pattern?
6. Use the map on page 405 to identify two countries in Southern Africa. For each of those countries, calculate per capita GDP by dividing total GDP by population. Which country has the higher per capita GDP?

(continued on page 412)

### Notes:

<sup>a</sup> Life expectancy figures for many African countries are declining significantly, mainly due to poverty, politics, and the spread of AIDS.



















<sup>b</sup> Doctors are defined as graduates of a school of medicine in any medical field.

<sup>c</sup> A comparison of the prices of the same items in different countries is used to figure these data.

<sup>d</sup> Includes land and water, when figures are available.

| Country Flag | Country/<br>Capital               | Population<br>(2000) | Life Expectancy <sup>a</sup><br>(years)<br>(2000) | Birthrate<br>(per 1,000 pop.)<br>(2000) | Infant Mortality<br>(per 1,000 live births)<br>(2000) |
|--------------|-----------------------------------|----------------------|---|---|---|
|              | <b>Ethiopia</b><br>Addis Ababa    | 64,117,000           | 46  | 45                                      | 116.0   |
|              | <b>Gabon</b><br>Libreville        | 1,226,000            | 52  | 38                                      | 87.0  |
|              | <b>Gambia</b><br>Banjul           | 1,305,000            | 45  | 43                                      | 130.0   |
|              | <b>Ghana</b><br>Accra             | 19,534,000           | 58  | 34                                      | 56.2  |
|              | <b>Guinea</b><br>Conakry          | 7,466,000            | 45  | 42                                      | 98.0  |
|              | <b>Guinea-Bissau</b><br>Bissau    | 1,213,000            | 45  | 42                                      | 130.0   |
|              | <b>Kenya</b><br>Nairobi           | 30,340,000           | 49  | 35                                      | 73.7  |
|              | <b>Lesotho</b><br>Maseru          | 2,143,000            | 53  | 33                                      | 84.5  |
|              | <b>Liberia</b><br>Monrovia        | 3,164,000            | 50  | 50                                      | 139.1   |
|              | <b>Libya</b><br>Tripoli           | 5,114,000            | 75  | 28                                      | 33.3  |
|              | <b>Madagascar</b><br>Antananarivo | 14,858,000           | 52  | 44                                      | 96.3  |
|              | <b>Malawi</b><br>Lilongwe         | 10,385,000           | 39  | 41                                      | 126.8   |
|              | <b>Mali</b><br>Bamako             | 11,234,000           | 53  | 47                                      | 122.5   |
|              | <b>Mauritania</b><br>Nouakchott   | 2,670,000            | 54  | 41                                      | 92.0  |
|              | <b>Mauritius</b><br>Port Louis    | 1,189,000            | 70  | 17                                      | 19.4  |
|              | <b>Morocco</b><br>Rabat           | 28,778,000           | 69  | 23                                      | 37.0  |
|              | <b>Mozambique</b><br>Maputo       | 19,105,000           | 40  | 41                                      | 133.9   |
|              | <b>Namibia</b><br>Windhoek        | 1,771,000            | 46  | 36                                      | 68.3  |



| <b>Doctors<sup>b</sup></b><br>(per 100,000 pop.)<br>(1992–1998) | <b>GDP<sup>c</sup></b><br>(billions \$US)<br>(1999) | <b>Import/Export<sup>c</sup></b><br>(billions \$US)<br>(1997–1999) | <b>Literacy Rate</b><br>(percentage)<br>(1998–1999) | <b>Televisions</b><br>(per 1,000 pop.)<br>(1996–1998) | <b>Passenger Cars</b><br>(per 1,000 pop.)<br>(1996–1997) | <b>Total Area<sup>d</sup></b><br>(square miles) |   |
|---|---|--|---|---|--|---|---|
| 4   | 33.3  | 1.25 / 0.42  | 36  | 5   | 0.8  | 471,776   |    |
| 19  | 7.9   | 1.2 / 2.4  | 63  | 136   | 21   | 103,346   |    |
| 4   | 1.4   | 0.201 / 0.132  | 35  | 4   | 7  | 4,127   |    |
| 6   | 35.5  | 2.5 / 1.7  | 69  | 115   | 5  | 92,100  |    |
| 13  | 9.2   | 0.56 / 0.695   | 36  | 41  | 2  | 94,925  |    |
| 17  | 1.1   | 0.023 / 0.027  | 37  | N/A   | 3  | 13,948  |    |
| 13  | 45.1  | 3.3 / 2.2  | 81  | 21  | 10   | 224,960   |   |
| 5   | 4.7<br>(1998 est.)                                  | 0.7 / 0.235  | 82  | 24  | 3  | 11,720  |  |
| 2   | 2.85  | 0.142 / 0.039  | 38  | 27  | 9  | 43,000  |  |
| 128   | 39.3  | 7.0 / 6.6  | 78  | 143   | 126  | 679,358   |  |
| 11  | 11.5  | 0.793 / 0.6  | 65  | 46  | 4  | 226,658   |  |
| 2   | 9.4   | 0.512 / 0.51   | 58  | 2   | 3  | 47,747  |  |
| 5   | 8.5   | 0.65 / 0.64  | 38  | 11  | 3  | 478,764   |  |
| 14  | 4.9   | 0.444 / 0.425  | 41  | 91  | 7  | 397,955   |  |
| 85  | 12.3  | 2.1 / 1.7  | 84  | 228   | 61   | 790   |  |
| 46  | 108.0   | 9.5 / 7.1  | 47  | 160   | 39   | 172,413   |  |
| 4   | 18.7  | 1.44 / 0.3   | 42  | 4   | 4  | 302,328   |  |
| 30  | 7.1   | 1.5 / 1.4  | 81  | 32  | 38   | 318,000   |  |



# Regional Data File

## Making Comparisons (continued)

7. Calculate the GDP per capita for Sierra Leone, Zambia, and Eritrea by dividing GDP by population. Where do those countries rank in life expectancy? What might be the relationship between a country's GDP and its life expectancy?

### Sources:

ABC-CLIO  
CIA World Factbook 2000 online  
Columbia Gazetteer  
Population Reference Bureau 2000 online  
*Statesman's Yearbook 2001*  
UN Human Development Report 2000  
U.S. Census Bureau online  
*World Almanac 2000*  
World Health Organization online  
N/A = not available

### Notes:

<sup>a</sup> Life expectancy figures for many African countries are declining significantly, mainly due to poverty, politics, and the spread of AIDS.

<sup>b</sup> Doctors are defined as graduates of a school of medicine in any medical field.



















<sup>c</sup> A comparison of the prices of the same items in different countries is used to figure these data.

<sup>d</sup> Includes land and water, when figures are available.

| Country Flag | Country/<br>Capital                                       | Population<br>(2000) | Life Expectancy <sup>a</sup><br>(years)<br>(2000) | Birthrate<br>(per 1,000 pop.)<br>(2000) | Infant Mortality<br>(per 1,000 live births)<br>(2000) |
|--------------|---|----------------------|---|---|---|
|              | <b>Niger</b><br>Niamey                                    | 10,076,000           | 41  | 54                                      | 123.1   |
|              | <b>Nigeria</b><br>Abuja                                   | 123,338,000          | 52  | 42                                      | 77.2  |
|              | <b>Rwanda</b><br>Kigali                                   | 7,229,000            | 39  | 43                                      | 120.9   |
|              | <b>São Tomé and Príncipe</b><br>São Tomé                  | 160,000              | 64  | 43                                      | 50.8  |
|              | <b>Senegal</b><br>Dakar                                   | 9,481,000            | 52  | 41                                      | 67.7  |
|              | <b>Seychelles</b><br>Victoria                             | 82,000               | 71  | 18                                      | 8.5   |
|              | <b>Sierra Leone</b><br>Freetown                           | 5,233,000            | 45  | 47                                      | 157.1   |
|              | <b>Somalia</b><br>Mogadishu                               | 7,253,000            | 46  | 47                                      | 125.8   |
|              | <b>South Africa</b> , Pretoria/<br>Cape Town/Bloemfontein | 43,421,000           | 55  | 25                                      | 45.4  |
|              | <b>Sudan</b><br>Khartoum                                  | 29,490,000           | 51  | 33                                      | 69.5  |
|              | <b>Swaziland</b><br>Mbabane                               | 1,004,000            | 38  | 41                                      | 107.7   |
|              | <b>Tanzania</b><br>Dodoma                                 | 35,306,000           | 53  | 42                                      | 98.8  |
|              | <b>Togo</b><br>Lomé                                       | 5,019,000            | 49  | 42                                      | 79.7  |
|              | <b>Tunisia</b><br>Tunis                                   | 9,619,000            | 69  | 22                                      | 35.0  |
|              | <b>Uganda</b><br>Kampala                                  | 23,318,000           | 42  | 48                                      | 81.3  |
|              | <b>Zambia</b><br>Lusaka                                   | 9,582,000            | 37  | 42                                      | 109.0   |
|              | <b>Zimbabwe</b><br>Harare                                 | 11,343,000           | 40  | 30                                      | 80.0  |
|              | <b>United States</b><br>Washington, D.C.                  | 281,422,000          | 77  | 15                                      | 7.0   |





| <b>Doctors<sup>b</sup></b><br>(per 100,000 pop.)<br>(1992–1998) | <b>GDP<sup>c</sup></b><br>(billions \$US)<br>(1999) | <b>Import/Export<sup>c</sup></b><br>(billions \$US)<br>(1997–1999) | <b>Literacy Rate</b><br>(percentage)<br>(1998–1999) | <b>Televisions</b><br>(per 1,000 pop.)<br>(1996–1998) | <b>Passenger Cars</b><br>(per 1,000 pop.)<br>(1996–1997) | <b>Total Area<sup>d</sup></b><br>(square miles) |   |
|---|---|--|---|---|--|---|---|
| 4   | 9.6   | 0.266 / 0.269  | 15  | 26  | 4  | 489,189   |    |
| 19  | 110.5   | 10.0 / 13.1  | 61  | 67  | 5  | 356,669   |    |
| 4   | 5.9   | 0.242 / 0.071  | 64  | N/A   | 2  | 10,169  |    |
| 47  | .169  | 0.02 / 0.005   | 73  | 227   | 30   | 372   |    |
| 8   | 16.6  | 1.2 / 0.925  | 36  | 41  | 12   | 76,124  |    |
| 132   | .59   | 0.363 / 0.091  | 84  | 190   | 85   | 178   |    |
| 7   | 2.5   | 0.166 / 0.041  | 31  | 26  | 4  | 27,699  |   |
| 4   | 4.3   | 0.327 / 0.187  | 24  | 13  | 2  | 246,200   |  |
| 56  | 296.1   | 26.0 / 28.0  | 85  | 125   | 102  | 471,445   |  |
| 9   | 32.6  | 1.26 / 0.58  | 56  | 141   | 1  | 967,494   |  |
| 15  | 4.2   | 1.05 / 0.825   | 78  | 107   | 29   | 6,705   |  |
| 5   | 23.3  | 1.44 / 0.828   | 74  | 21  | 2  | 364,898   |  |
| 8   | 8.6   | 0.45 / 0.4   | 55  | 20  | 17   | 21,853  |  |
| 70  | 52.6  | 7.47 / 5.8   | 69  | 198   | 28   | 63,378  |  |
| 4   | 24.2  | 1.1 / 0.471  | 65  | 26  | 1  | 91,134  |  |
| 7   | 8.5   | 1.15 / 0.9   | 76  | 137   | 16   | 290,585   |  |
| 14  | 26.5  | 2.0 / 2.0  | 87  | 29  | 3  | 150,820   |  |
| 251   | 9,255.0   | 820.8 / 663.0  | 97  | 847   | 489  | 3,787,319                                       |  |